



**Air Vent Technology Ltd,**

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# SRW/EC ROOFTOP AHUS

## Installation, Operation & Maintenance Manual

### Introduction

Designed for external applications, the SRW/EC range encompasses 4 models of direct driven centrifugal air handling units with airflow duties up to 1.35m<sup>3</sup>/s

Motor windings are fitted with an auto-reset thermal cut-out.

Motors are pre-wired to an external terminal box trickle - boost speed controller & isolator.

Units complete with integral G3 panel filter & LPHW heating coil.

### General Construction

Casework is manufactured from 0.9mm to 1.6mm thick powder-coated (BS10A05 as standard - other colours on request) sheet steel with an 'O' class foam / barrier mat sandwich insulation to provide acoustic insulation, double skinned as an option.

Access is via a removable top cover.

Inlet via bird-mesh protected cowl.

### Inspection Upon Receipt Of Goods

Immediately upon receipt of any goods, a careful inspection should be undertaken to ensure neither damage has occurred nor parts missing.

Particular attention should be paid to the fan impeller & casework.

In the event of such damage or loss having occurred, inform AVT (01264 356 415) WITHIN 3 WORKING DAYS of the delivery date, giving the serial number which can be found on the nameplate. After this period we will be unable to entertain any claim for loss or damage.

### Handling

Units must be handled with care to avoid damage, particularly units being craned into position attention must be paid to the coil connections, overhanging weather lid & plastic finish A spreader bar should be employed so as to prevent damage to the top of the unit.

### Installation

When installing our equipment, the following must be observed.

Safety: It is the responsibility of the installer to ensure that the installation complies with the legal regulations and the current HEALTH AND SAFETY AT WORK ACT.

Ambient Temperatures: The range of units covered by this manual are designed for use in

an environment where the ambient air temperature is unlikely to exceed 40°C.

Mounting / Positioning: These units must be mounted in the horizontal plane mounted on a completely flat base.

EME/EC units have integral mounting feet.

Duct Connections: Adjoining ductwork should always be independently supported to avoid undue stress on the unit casing. Impellers are statically and dynamically balanced, anti-vibration mounts and fast clamps are available to suit.

Access: All units are designed with easily removable components for maintenance purposes. Sufficient room should be allowed to allow components to be withdrawn.

### Electrical Wiring

Electrical supply must be fully isolated before attempting to affect any work on the unit.

All wiring should be carried out by a competent electrician and should comply fully with the current I.E.E. Wiring regulations.

The electrical supply must be as stated on the nameplate.

When the wiring is complete, check for free & correct rotation of the fan impeller

### Maintenance

3 Monthly: Filters should be inspected and if found to be heavily soiled, replaced.

6 Monthly: The fan impeller should be carefully cleaned with a brush. This will prevent the impeller from becoming unduly dirty and become unbalanced.

12 Monthly: The security and integrity of all fastenings should be checked, particularly the motor mounting frame.

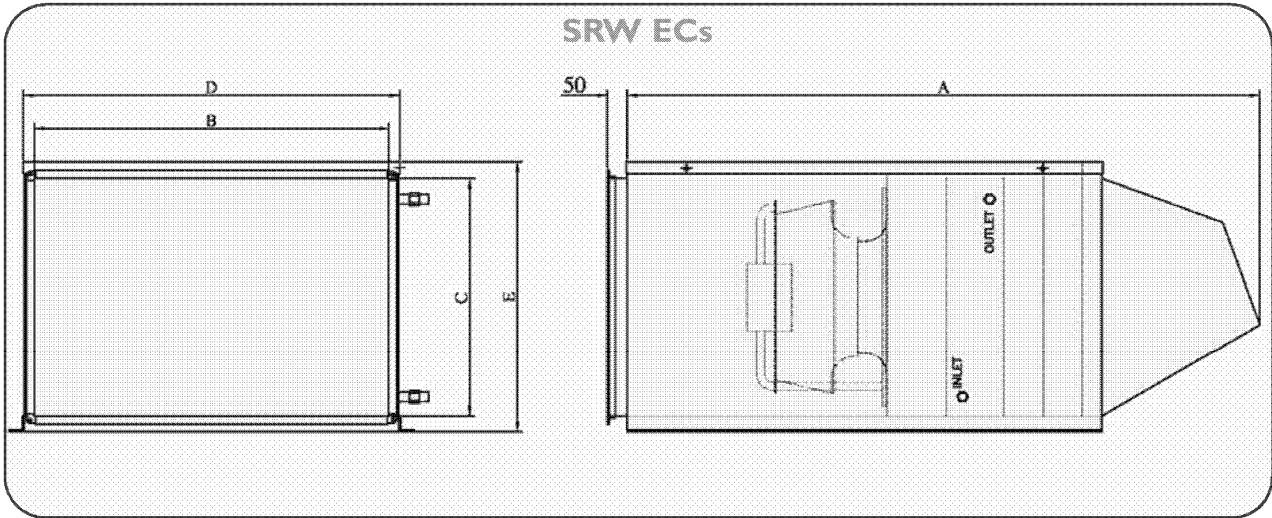
	Motor Power	Phase	FLC
SRW1EC	490W	1Φ	3.0A
SRW4EC	510W	1Φ	3.1A
SRW6EC	450W	1Φ	2.9A
SRW7EC	640W	1Φ	2.9A



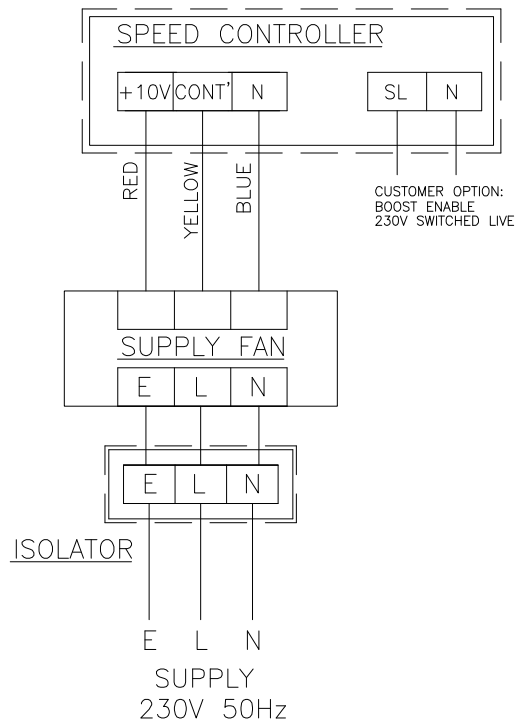
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Model	A	B	C	D	E	kg
<b>SRW1EC</b>	1200	600	450	650	580	74
<b>SRW2EC</b>	1200	600	450	650	580	74
<b>SRW3EC</b>	1200	600	450	650	580	74
<b>SRW4EC</b>	1225	750	450	800	580	87
<b>SRW5EC</b>	1225	750	450	800	580	87
<b>SRW6EC</b>	1350	825	500	875	580	104
<b>SRW7EC</b>	1600	900	600	950	680	125





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## LPHW Coil

### Installation

Before installation check the coil for any minor fin damage and use a fin comb to reinstate the fins.

Check that the handing of the coil is correct for your application. The handing is determined whilst looking in the direction of airflow and relates to the position of the connections.

Install all coils with the tubes horizontal and level. This applies whether the airflow is horizontal or vertical. The reason is that this will allow for the most effective venting of the coil.

Coils are not to be used with the tubes vertical or inclined upwards unless this was agreed at the design stage.

Where coils are incorporated into ducting, it is important that they are properly installed.

Suitable sealing methods should be employed to prevent air bypassing the finned area of the coil.

The ducting should be fitted to the coil by removing the end covers (where fitted) and drilling through the coil platework and bolting into position. Care should be taken to protect the headers and return bends by using a piece of wood or sheet metal behind the platework being drilled. A suitable sealant should be used to seal the joints and when replacing the end covers.

Access should be provided to both ends of the coil, without the need to remove any of the external pipework, for the purpose of inspection, cleaning and maintenance.

### Piping

Coils should be piped such that the water flowing into the coil is at the end where the air leaves the coil. This will give counterflow and the greatest heat transfer.

Coils should be piped according to any relevant local codes of practice.

Where threaded connections are supplied, the only approved method of jointing method is by use of Boss white and hemp. The thread fitted to the coil is to be supported at all times whilst making joints. All external piping is to be supported independently from the coil.

Fluid filters are recommended.

### Maintenance

Finned surfaces should be inspected regularly and cleaned if necessary.

Filters should be regularly changed to maintain constant air flows.

Coil should be inspected for signs of corrosion.

Circulating fluid should be kept free from impurities and corrosive elements.

Vent air from coil on a regular basis. Automatic air vents are recommended.

Check all connections and tighten if necessary.

